

Reference parameters for TEG in healthy and pathologic pediatric population

Author/year	Type of pts	Age	N. of pts	R	k	alpha	MA	Lys30	Note
Rajwal S 2004 (115)	healthy	1-15 y	14	17.4 ± 3.6	7.6 ± 1.4	31.2 ± 4.8	52.6 ± 6.4	0.8 ± 1	native blood
				7.7 ± 2.6	3.1 ± 1.4	55 ± 10.5	57.6 ± 3.7	1.9 ± 1.2	recalcified blood
Pivalizza EG 2001 (116)	healthy	<13 m	25	10.1±3.1	2.4±0.5	74.2 ± 3.5	70.2±6.1	3.4 ± 2.9	celite as activator
		13-24 m	33	9.8±3.3	2.5±0.6	73.2 ± 3.1	70.2±4.7	2.1 ± 1.3	
		25-48 m	24	10.5±3.0	2.7±0.7	71.2 ± 4.2	68.4±5.2	2.1 ± 1.4	
		49 m - 9 y	29	9.6±2.5	2.8±0.6	72.9 ± 4.2	70.5±3.3	2.0 ± 1.1	
Edwards RM 2008 (114)	healthy	newborn	59	5.3±1.3	1.6±0.4	67.2±4.5	61.8±4.6	0.7±0.7	cord blood, recalcified blood
		8.7±2.6 y	44	8.7±2.6	2.1±0.7	61.6±7.1	59.6±4.2	0.2±1.3	recalcified blood
Chan KL 2007 (30)	healthy	<1 y	24	7.7 (4.5 - 11.6)	1.8 (1.2 - 2.3)	66.5 (58.8 - 73.4)	67.2 (60.7 - 73.2)	3.8 (0.3 - 8.4)	mean and 2.5-97.5 percentile
		1-5 y	24	8.3 (5.7 - 10.9)	2.0 (1.4 - 3.3)	63.6 (53.8 - 70.3)	65.2 (57.6 - 71.3)	3.0 (0.2 - 7.8)	
		6-10 y	26	7.8 (5.3 - 11.0)	2.0 (1.4 - 2.8)	63.9 (54.3 - 70.7)	65.0 (57.3 - 72.8)	3.3 (0.2 - 6.2)	
		11-16 y	26	6.9 (3.8 - 11.1)	1.9 (1.2 - 2.9)	65.1 (54.9 - 73.2)	66.5 (56.8 - 74.4)	3.7 (0.5 - 8.0)	
Brenn BR 2004 (120)	Cerebral Palsy	15±3 y	15	4.8±1	1.6±0.6	68±8	65±8		Patients undergoing spinal fusion surgery
	Idiopathic Scoliosis	14±1.5 y	15	5.0±0.6	1.3±0.4	71±5	70±4		
Kang Y (56)	cirrhotic pts undergoing liver transplant	9 m - 7 y	8	9.6±6.2			46.9±11.5		baseline
				7.4±2.8			47.3±7.9		anhepatic phase
				10.1±2.4			46.1±9.7		30' after reperfusion
				9.2±3.2			49.9±8.8		90' after reperfusion

Reference parameters for ROTEM in healthy and pathologic pediatric population

Author/year (ref.)	Type of pts	Age	N. of pts	CT	CFT	MCF	CLI60	Note
Strauss 2010 (29)	pre-term	newborn	47	185 (108–357)	80 (52–183)	57 (42–66)		median
	full term		184	194 (98–588)	76 (34–208)	60 (39–71)		(MIN-MAX)
Oswald W 2010 (117)	healthy	0-3 m	51	184 (105-285)	44 (27 - 88)	66 (54 - 73)		InTEM
		4-12 m	55	172 (76 - 239)	60 (37 - 100)	63 (52 - 73)		median
		13-24 m	54	161 (99 - 207)	61 (42 - 112)	64 (50 - 72)		(2.5% -
		2-5 y	70	170 (99 - 239)	60 (40 - 94)	63 (53 - 73)		97-5%
		6-10 y	79	168 (97 - 212)	64 (48 - 93)	62 (53 - 69)		percentile)
		11-16 y	50	171 (128 - 206)	68 (45 - 106)	62 (54 - 71)		
		0-3 m	51	48 (38 - 65)	57 (30 - 105)	62 (54 - 74)	87 (71 - 94)	ExTEM
		4-12 m	55	53 (37 - 77)	72 (44 - 146)	60 (46 - 71)	86 (71 - 95)	median
		13-24 m	54	55 (37 - 73)	75 (46 - 139)	60 (46 - 72)	88 (77 - 94)	(2.5% -
		2-5 y	70	56 (46 - 97)	72 (41 - 109)	61 (52 - 70)	86 (74 - 93)	97-5%
		6-10 y	79	57 (43 - 74)	77 (49 - 114)	60 (53 - 68)	87 (70 - 97)	percentile)
		11-16 y	50	59 (44 - 91)	81 (53 - 115)	62 (53 - 72)	88 (76 - 94)	
Oasthaus WA 2008 (118)	Normal pts	211±116 d	17	177±28	60±21	64±6		InTEM
	Acyanotic pts	134±61 d	17	178±41	70±16	61±4		(mean±SD)
	Cyanotic pts	135±132 d	17	194±43	105±68	56±6		
	Normal pts	211±116 d	17	51±6	71±25	62±6	94±2	ExTEM
	Acyanotic pts	134±61 d	17	50±5	88±22	59±6	93±2	(mean±SD)
	Cyanotic pts	135±132 d	17	68±40	141±99	54±9	91±4	
Haizinger B 2006 (119)	ASA I pts	0 - 1 m	6	179±17	56±23	68±7	91±2	InTEG
	ASAIII-IV cardiac pts		17	332±207	127±184	62±10	93±3	
	ASA I pts	1 - 3 m	6	166±25	45±9	69±3	89±2	
	ASAIII-IV cardiac pts		6	257±95	78±47	61±6	91±2	
	ASA I pts	3 - 6 m	6	183±22	49±22	67±7	90±3	
	ASAIII-IV cardiac pts		6	187±29	53±11	69±4	94±3	
	ASA I pts	6 - 12 m	6	172±11	60±17	63±8	89±2	
	ASAIII-IV cardiac pts		6	196±55	61±11	66±3	92±4	
	ASA I pts	0 - 1 m	6	35±12	65±31	65±9	91±2	
	ASAIII-IV cardiac pts		17	55±62	119±119	54±10	92±4	
	ASA I pts	1 - 3 m	6	35±9	65±12	64±2	90±4	
	ASAIII-IV cardiac pts		6	35±7	98±43	54±7	91±2	
	ASA I pts	3 - 6 m	6	33±9	75±33	65±9	89±3	ExTEG
	ASAIII-IV cardiac pts		6	34±15	79±29	63±5	94±4	
	ASA I pts	6 - 12 m	6	45±19	96±39	59±9	89±2	
	ASAIII-IV cardiac pts		6	36±11	85±17	58±5	92±3	